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EOSDIS Core System Project

Operations Scenarios for the ECS Project: Release A

January 1996

Hughes Information Technology Corporation
Upper Marlboro, Maryland

Operations Scenarios for the ECS Project: Release A

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Preface

This document is a contract deliverable with an approval code 2. As such, it does not require formal Government approval, however, the Government reserves the right to request changes within 45 days of the initial submittal. Once approved, contractor changes to this document are handled in accordance with Class I and Class II change control requirements described in the EOS Configuration Management Plan, and changes to this document shall be made by document change notice (DCN) or by complete revision.

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Abstract

This is intended as the final submittal of the ECS Operations Scenario Document (DID 605). All scenarios presented here are those scenarios previously distributed for Operations Teleconferences planned for October 5 - November 16 (inclusive). Comments received about scenarios discussed at teleconferences and received prior to 12/29 have tried to be incorporated into these scenarios, and has been addressed in the attached matrix (TR-000-011). The ECS Operations Scenario document specifies the display formats and operational scenarios that will be implemented in elements with significant operator/machine interaction. The document contains operational scenarios for each affected element, and descriptions of typical visual displays the operator will access during specific operations.

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Abbreviations and Acronyms

1. Introduction

1.1 Identification

This document is intended as the final submittal of the ECS Operations Scenarios Document for Release A. It is submitted as required by Data Item Description (DID) 605/OP1 for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) Contract (NAS5-60000).

1.2 Scope

This document describes the Operations Scenarios for Release A of ECS.

This document (Operations Scenarios for Release A) reflects the June 21, 1995 Technical Baseline maintained by the contractor configuration control board in accordance with the ECS Technical Direction No. 11 dated December 6, 1994.

This document provides the displays (including screen formats) and operator/machine interaction for the science data processing and system operations management activities of ECS Release A. These activities are performed at the DAACs and SMC.

1.3 Purpose and Objectives

The purpose of the Operations Scenario document is to describe the displays that will provide the operators, users and data providers with the GUI for conducting TRMM mission operations with the ECS system. Those TRMM mission operations are:

- TRMM Science Software Integration and Test (SSI&T).
- TRMM Science Data Ingest, Processing, Archive and Distribution.
- Landsat-7 Interface Testing.
- EOS AM-1 SSI&T.
- EOS AM-1 Interface Testing.
- V0 Data Migration and Interoperability.

The DAAC and SMC maintenance and operations staff must have sufficient information and controls available to configure, monitor and maintain the ECS system components and conduct science data operations. The users and data providers must have sufficient information and controls to provide data to the ECS DAACs, integrate science software, review processing results, and review/analyze/request V0 and V1 science data.

1.4 Status and Schedule

This submittal is intended as the final Release A Version of the ECS Operations Scenarios document.

1.5 Document Organization

The contents of this document are organized as follows:

- | | |
|-----------|---|
| Section 1 | Introduction—Introduces the ECS Operations Scenario Document scope, purpose, objectives, status, schedule, and document organization. |
| Section 2 | Related Documentation—Provides a bibliography of reference documents for the Operations Scenario Document organized by parent document, reference document, and information document subsections. |
| Section 3 | Release A “Key” System Operations Interfaces—provides user interfaces for the key activities of ECS science data processing and system operations management. |

2. Related Documentation

2.1 Parent Documents

The following documents are the parents from which this document's scope and content derive:

423-10-01-0	Goddard Space Flight Center, Earth Science Data and Information System (ESDIS) Project--Level 2 Requirements, Volume 0
423-10-01-01	Goddard Space Flight Center, Earth Science Data and Information System (ESDIS) Project--Level 2 Requirements, Volume 1
423-41-01	Goddard Space Flight Center, EOSDIS core System Statement of Work
423-41-02	Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System

2.2 Applicable Documents

The following documents provided guidance for the development of more detailed operational concepts. This Operations Scenario Document is, therefore, intended to be consistent with the following:

209-CD-007-003	Interface Control Document (ICD) Between the EOSDIS Core System (ECS) and TRMM Science Data and Information System (TSDIS) for the ECS Project
209-CD-008-002	Interface Control Document (ICD) Between the EOSDIS Core System (ECS) and the Goddard Space Flight Center (GSFC) Distributed Active Archive Center (DAAC) for the ECS Project
209-CD-009-002	Interface Control Document (ICD) Between the EOSDIS Core System (ECS) and the Marshall Space Flight Center (MSFC) Distributed Active Archive Center (DAAC) for the ECS Project
604-CD-001-004	ECS Operations Concept for the ECS Project: Part 1-- ECS Overview
604-CD-003-002	ECS Operations Concept for the ECS Project: Part 2A -- ECS Release A
210-TP-001-004	Technical Baseline for the ECS Project
222-TP-003-008	Release Plan Content Description for the ECS Project
420-TP-003-001	SDPS End to End Scenarios, Technical Paper for the ECS Project

none	Goddard Space Flight Center, Draft EOSDIS Science Operations Concept
none	Goddard Space Flight Center, Earth Observing System Mission Operations Concept Document

2.3 Information Documents

The following documents, although not directly applicable, amplify or clarify the information presented in this document, but are not binding.

194-00313TPW	ECS User Characterization Methodology and Results [for the ECS Project]
420-WP-003-001	Mission Statement for TRMM Release for the ECS Project